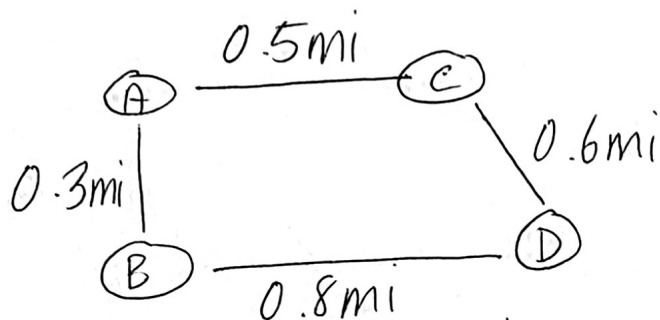


Noteset 1E - In Class Notes

Measurement Example

Distance between points



mi = mile, imperial unit of length

Written Distances

A-B: 0.3mi A → B

A-C: 0.5mi A → C

C-D: 0.6mi C → D

B-D: 0.8mi B → D

Measurements are always written in a three part format

Quantity + Unit + Label
(Number) (system of measure) (what measure relates to)

0.3 mile A → B
quan. unit label

0.6 mi C → D
quan. unit label

Measurements of the same type and unit can be added or subtracted.

$$A \rightarrow D = A \rightarrow C + C \rightarrow D$$

$$= 0.5 \text{ mi} + 0.6 \text{ mi} = \underline{1.1 \text{ mi } A \rightarrow D}$$

$$A \rightarrow D = A \rightarrow B + B \rightarrow D$$

$$= 0.3 \text{ mi} + 0.8 \text{ mi} = \underline{1.1 \text{ mi } A \rightarrow D}$$

Writing Measurements w/ other units

Volume (L, Liters; metric; gal, gallons; imperial)

3.5 L water
quantity unit label

L → volume, metric

1.6 gal oil
quantity unit label

gas → volume, imperial

Mass (kg, kilograms, metric; lb, pound, imperial)

0.860 kg flour
quantity unit label

kg → mass, metric

13.9 lb gravel
quantity unit label

lb → pound, imperial

860 g flour
quantity unit label

1 kg = 1000g (gram)
(same amount)

g → mass, metric

222.4 oz gravel
quantity unit label

1 lb = 16 oz (ounces)
(same amount)

oz → mass, imperial